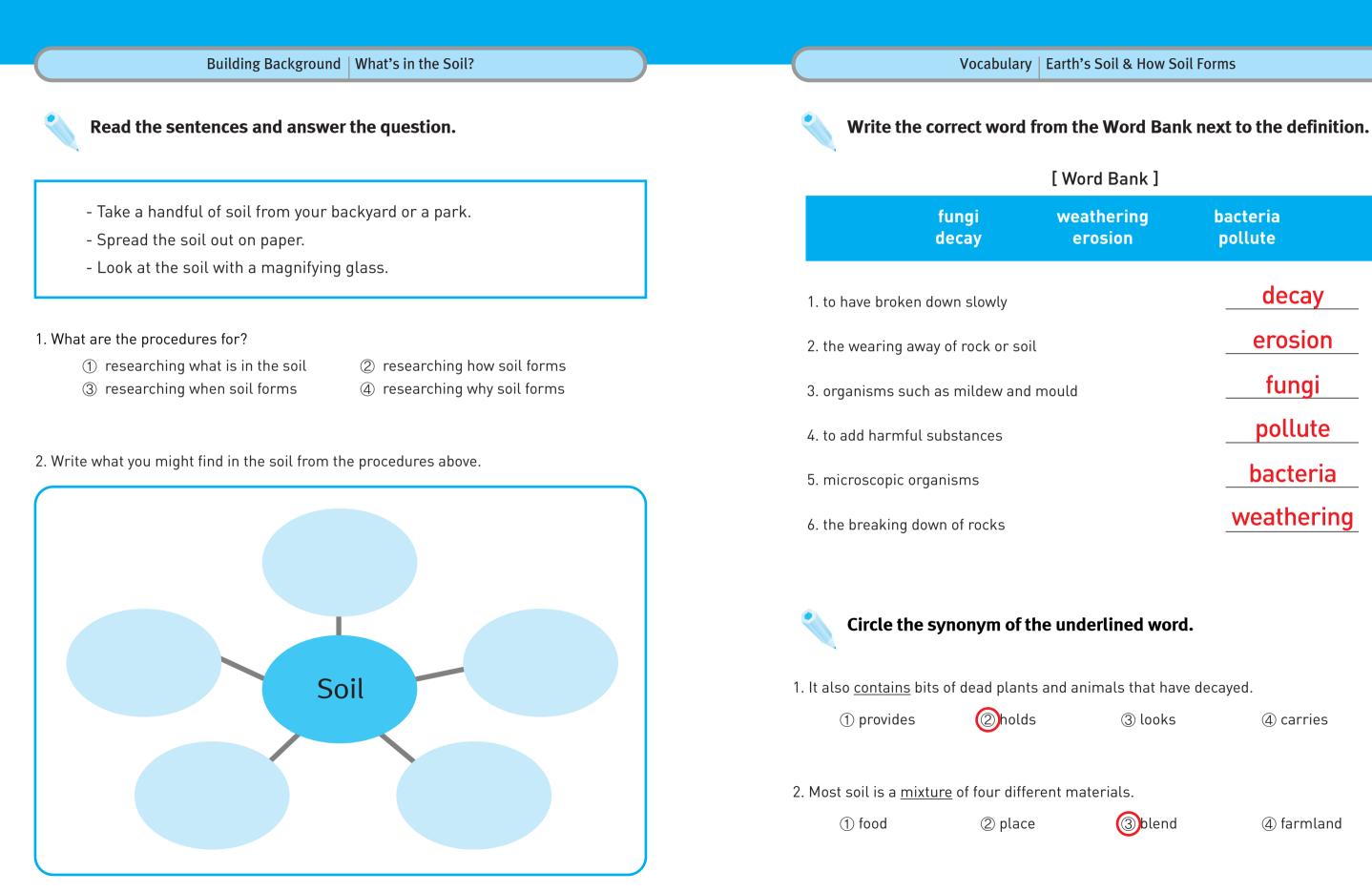




It's All in the Soil







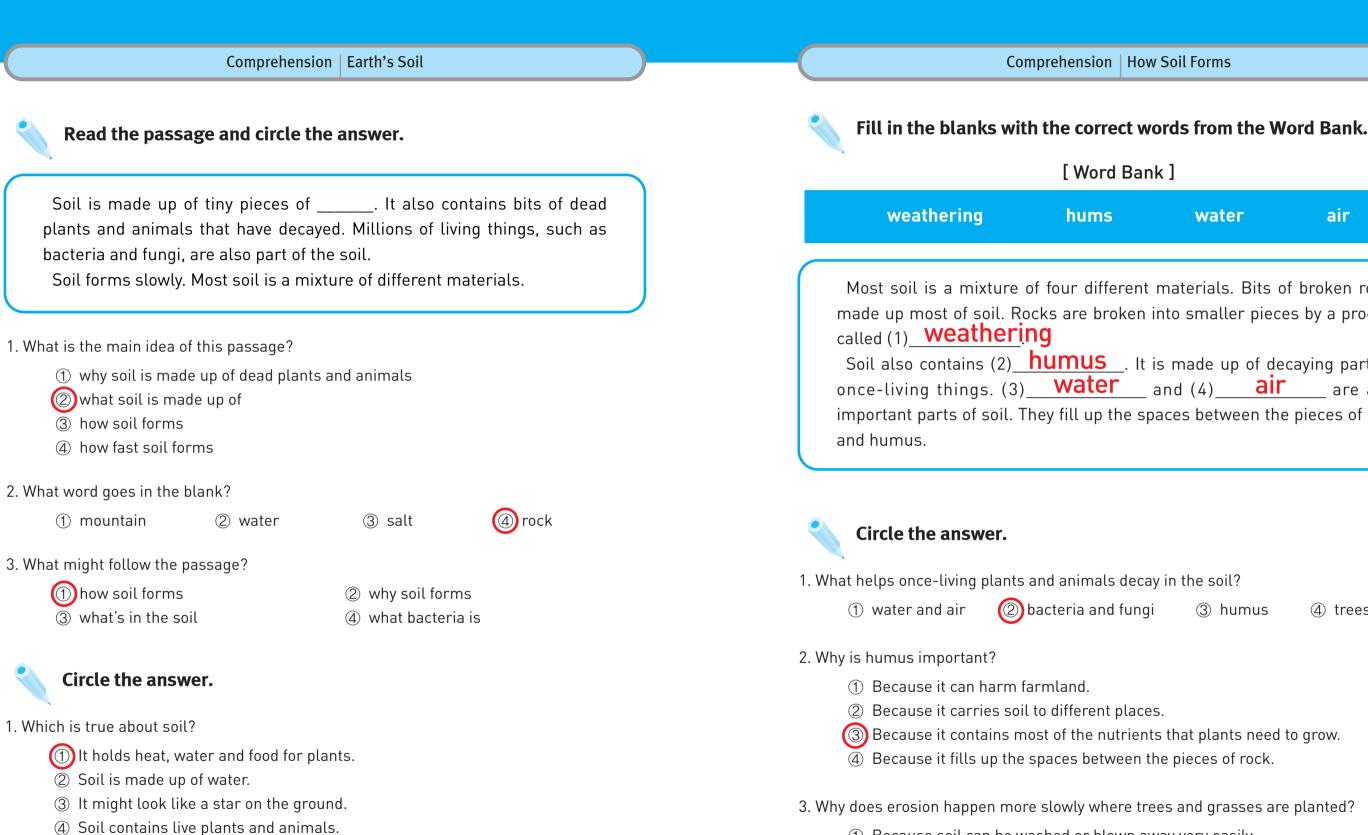
Bank]	
ering sion	bacteria pollute
	decay
	erosion
	fungi
	pollute
	bacteria
	weathering

(3) looks

(4) carries

③ blend

(4) farmland



2. What is an organism such as mildew and mould called?

(1) erosion (2) plants ③ soil

(d) fungi

			л.
sa	n	Κ	

	water	air	
		f broken rocks s by a process	
and ((4) air	caying parts of	
spaces	between the	pieces of rock	
ecay in th	ie soil?		
Ingi	③ humus	④ trees and c	irass

① Because soil can be washed or blown away very easily.

(2) Because their roots hold the soil in place.

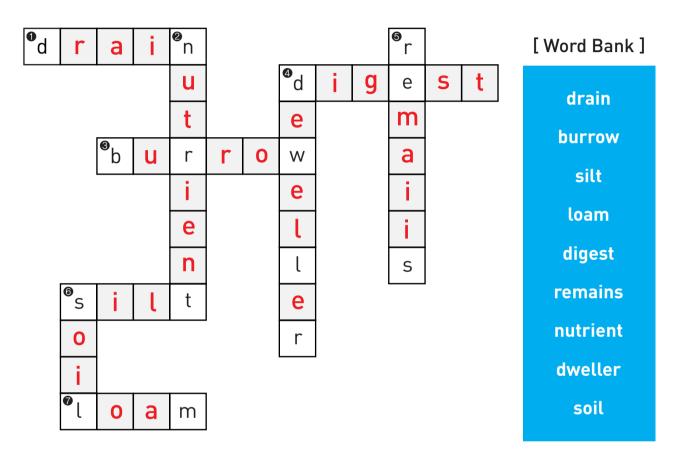
③ Because wind and rain carry soil to different places.

④ Because trees and grasses contain most of the nutrients that plants need to grow.

Vocabulary Soil Layers, Kinds of Soil & Animals in the Soil



Complete the word puzzle from the Word Bank.



Across

- 1. to flow water somewhere
- 3. a hole or a tunnel dug by animals
- 4. to pass food through the stomach
- 6. soil made of medium-sized grains
- 7. a mixture of clay, silt and sand

Down

- 2. substance that helps plants and animals grow
- 4. a person or an animal who lives in a kind of place or house
- 5. the parts of people or animal's body that are left after they have died
- 6. the substance on the surface of the earth in which plants grow



Topsoil

(1) This top layer is made up of the smallest grains. (2) This layer contains a lot of humus and nutrients. (3) Plants grow well in this layer.

Subsoil

- (1) This layer has larger grains.
- (2) It does not contain as much humus as topsoil.
- (3) Plants do not grow well here.

Lowest Layer

- (1) This layer is made up of a mix of pebbles and chunks of rocks.
- (2) It does not contain humus.
- (3) Plants do not grow well here.

Bedrock

This layer is soild rock.

Comprehension | Soil Layers



	Comprehension	Kinds of Soil			Comprehension Anin
Write the correct	answers from	the Word Bank.		Read the pas	ssage and circle the ar
	[Word	d Bank]			
clay	loam	silt	sandy soil	· · · · ·	home for plants. Anima
1. This soil drains through w	vater most quickly	v. What is it?	sandy soil	they cannot be se protection. Some	als can be as large as a b en. Soil provides animal animals, such as (1) s, or burrows. Smaller c
2. This soil is much smoothe fine grain easily. What is it		not drain through it	sclay	also live in the so	il.
3. This soil is best for growin	ng plants. What is	it?	loam	1. What is the best title	of this passage?
4. This soil contains medium sand but bigger than clay.	-	d it is smaller than	silt	① Animals in th③ Soil Layers	ne Soil
Reread Book pag	ge 9 and write t	he answers in y	our own words.	2. What animal fits in th ① tigers	he blank (1)?

- 1. Write 3 reasons why loam is the best soil for farming. (1) It is rich in nutrients.
- (2) It holds water well.
- (3) It allows air to reach plants' root.

2. Write 2 reasons why plants do not grow well in clay.

(1) Water and air cannot easily move through layers of clay. Plant roots cannot push through clay soil to find water.

3. Write a reason why plants do not grow well in sandy soil. It does not hold enough water or nutrients for many plants to grow well.

Reread Book page 11 and write about how earthworms help soil to be healthy in your own words. Earthworms eat decaying plants and help break them down. And they make tunnels that let water and air into the soil. These tunnels help water and air reach plant roots more easily. At the same time, they mix up the soil layers as they are moving.

3. What animal fits in the blank (2)?

② badgers

(1) lions

nima	ls in	the	Soil
minu	. 5 m	the	2011

rcle the answer.

nts. Animals also make their home in the				
arge as a badger or they can be so small that				
les animals with food, warmth and				
n as (1) dig under the soil to				
Smaller creatures, such as (2)				

④ Earthworms

③ insects (4) earthworms

③ worms ④ rabbits

Vocabulary Soils and Farming & Taking Care of Soil	Comprehension So
Fill in the blanks with the correct words from the Word Bank.	Circle the answer.
[Word Bank]	1. For years, what have farmers spread on their
compost terraces ladybirds protect wastes manufactured pesticides humus	 pesticides ladybirds
	2. Why did some farmers begin to use manufact
1. For years, farmers spread animal Wastes on their land to return nutrients to the soil.	① to enrich the soil②③ to kill earthworms④
	3. What are 'pesticides'?
2. Then as farms grew larger, some farmers began to use manufactured fertilizers to	1 They are manufactured fertilizers.
enrich the soil.	② They are birds to eat other insects, but
	③ They are earthworms to dig holes in s
3. They also began using chemicals called _pesticides to kill insects that ate crops.	They are chemicals to kill insects tha
	4. Why do some farmers use ladybirds to contro
4. They are trying to find safer ways to protect their crops.	 Because ladybirds make soil enriched
	Because ladybirds eat harmful insect
5. Some farmers use ladybirds to control pests. They eat other insects but not	③ Because ladybirds dig holes in soil.
plants.	④ Because ladybirds mix up the soil lay
	5. Which is the best way to stop soil erosion?
6. Farmers sometimes cut step-like terraces on steep slopes.	(1) cutting step-like terraces on steep sl
	② farming the same crops every year
7. People can help the soil by adding COMPOST to it. It is a mixture of dry things,	③ using manufactured fertilizers
7. reopte can help the solid by adding <u>compose</u> to it. It is a mixture of dry things,	④ using ladybirds to control pests

6. What is the substance that farmers spread on the ground to make plants grow better?

pesticides
 aphids

such as dried leaves and grasses, and moist things, such as fruit and vegetable scraps.

8. When these are combined and allowed to decay, they become <u>humus</u>.

Soils and Farming

neir land to return nutrients to the soil?

factured fertilizers?

- ② to dry the soil
- ④ to protect ladybirds

s, but not plants.

in soil.

that eat crops.

ontrol pests?

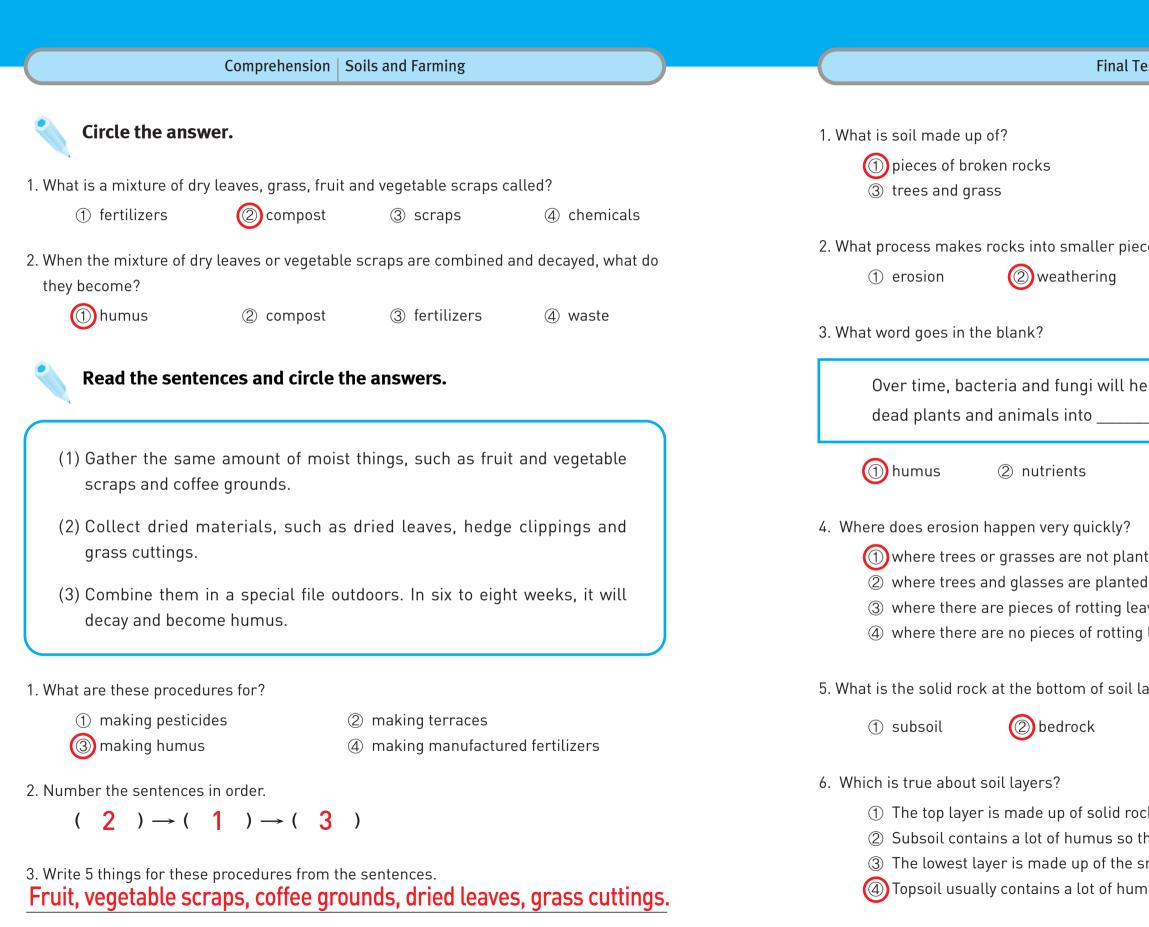
ched.

sects but not plants.

l layers.

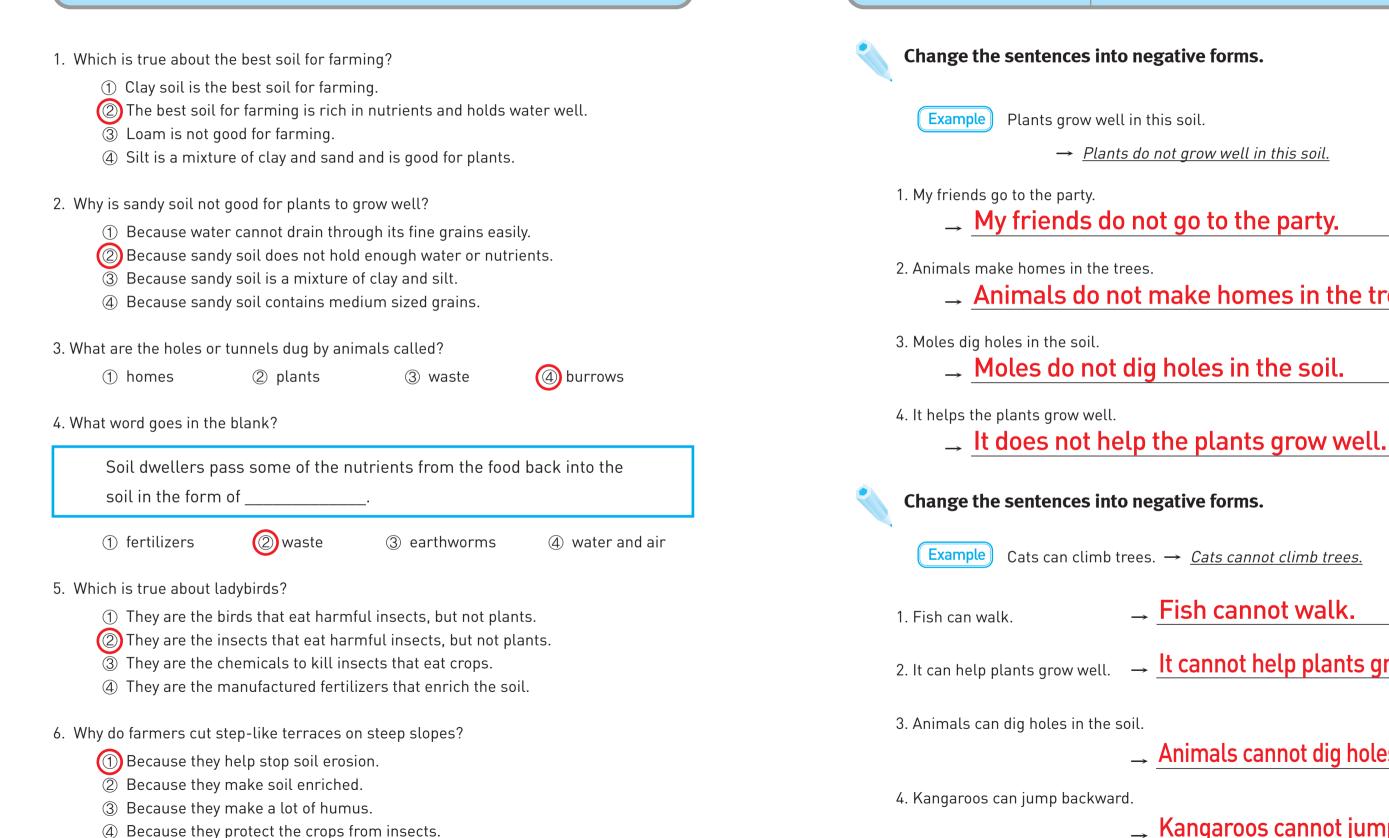
slopes

③ fertilizers ④ slopes



est (1)		
② nutrients④ weathering		
es? ③ polluting	④ watering	
elp decay rotting leaves a 	ind other	
③ water and air	④ erosion	_
ted I Ives and other dead plants leaves and other dead pla		
ayers called?		
③ topsoil	④ grain	
k. hat plants grow well in this mallest grains. hus and nutrients.	s layer.	

Final Test (2)



14 • Four Corners Workbook

 \rightarrow Plants do not grow well in this soil.

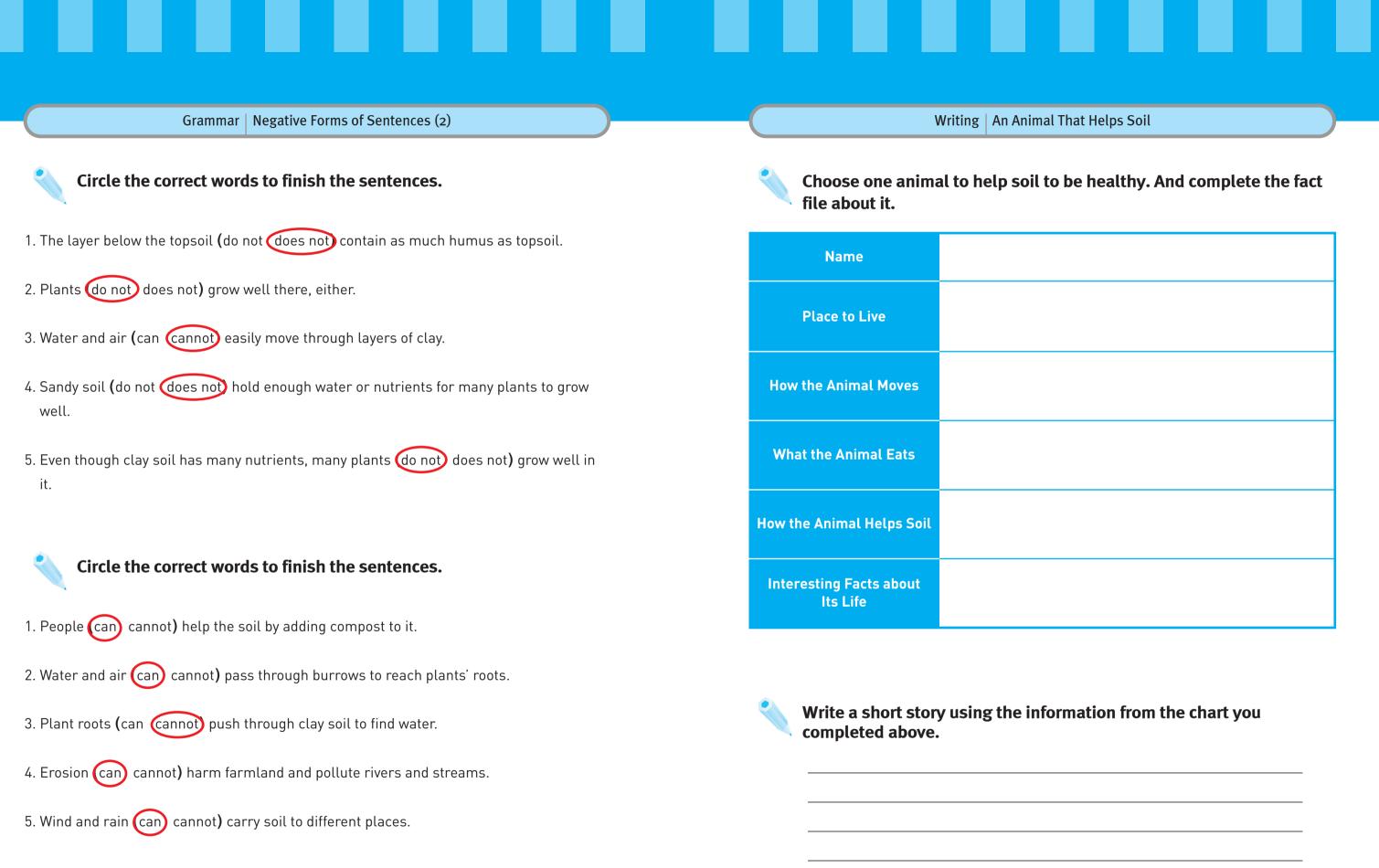
→ Animals do not make homes in the trees.

Cats can climb trees. \rightarrow Cats cannot climb trees.

\rightarrow Fish cannot walk.

Animals cannot dig holes in the soil.

Kangaroos cannot jump backward.



Listening Practice



Listen to the sentence and fill in the blanks.

- 1. Soil is made up of tiny pieces of <u>rock</u>.
- 2. <u>Wind</u> and <u>rain</u> can carry soil to different places.
- 3. Clay soil has many **nutrients**.
- 4. When these animals die, their remains <u>decay</u> and become humus.
- 5. Farmers sometimes cut <u>step</u>-like terraces on steep <u>slopes</u>.



Listen to the paragraph and fill in the blanks.

- 6. It might look like <u>plain</u> old <u>dirt</u>, but soil is much more than that. Earth's soil makes almost all <u>life</u> on land possible. It holds <u>heat</u>, water and food for plants. It provides <u>shelter</u> and food for animals. People depend on <u>soil</u> for farming and food.
- 7. Sometimes <u>erosion</u> happens very quickly. If there are no trees or <u>grasses</u>, soil can be <u>washed</u> or <u>blown</u> away very easily. Erosion happens more slowly where trees and grasses are planted. Their <u>roots</u> hold the soil in place.
- 8. <u>Clay</u> soil has many nutrients. Even so, many plants do not grow well in it. Water and <u>air</u> cannot easily move through <u>layers</u> of clay. Plant <u>roots</u> cannot push through clay soil to find water. <u>Sandy</u> soil does not hold enough water or <u>nutrients</u> for many plants to grow well.
- 9. Soil provides animals with food, <u>warmth</u> and <u>protection</u>. Some animals, such as wombats, moles and rabbits, <u>dig</u> under the soil to make their homes, or <u>burrows</u>. Smaller creatures, such as <u>worms</u> and insects, also live in the soil.
- 10. Keeping soil <u>healthy</u> or making <u>poor</u> soil better has always been important to farmers. That is because it can take thousands of <u>years</u> to form enough good soil for <u>farming</u>. Farmers need to protect the soil they have.

MEMO

Four Corners WORKBOOK **It's All in the Soil**

Publisher Jae-yoon Chung Managing Director Hannah Lee Senior Editor Jung-ah Kim Project Editor Reese Ji Written by Jeong Hee Choi Proofread by Alwin G. Fontenot Recorded by Yeasung Media Tech Illustrated by Donghyun Lee, Youngjoo Jung Designed by DOD Design Printed by POD KOREA

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First Edition in 2008

ISBN 978-89-256-0049-9